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APPLICATION NO.	. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/298,798		04/23/1999	YU-CHEUN JOU	QCPA990343	2454	
23696	7590	02/12/2003				
Qualcomn	-	ated	EXAMINER			
Patents Dep 5775 Morel	house Drive	-	ODLAND, DAVID E			
San Diego, CA 92121-1714				ART UNIT	PAPER NUMBER	
•			2662			
				DATE MAILED: 02/12/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

· '& · ·		Appli	cation No.	Applicant(s)					
Office Action Summary		09/29	98,798	JOU, YU-CHEUN	\mathcal{V}				
		Exam	iner	Art Unit					
			Odland	2662					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status									
1)⊠ Re	Responsive to communication(s) filed on 20 December 2002.								
2a) <mark>□ T</mark> hi	s action is FINAL . 2b)⊠ This actio	n is non-final.						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims									
4)⊠ Claim(s) <u>1-31</u> is/are pending in the application.									
4a) (4a) Of the above claim(s) is/are withdrawn from consideration.								
5)∭ Claii	Claim(s) is/are allowed.								
6)⊠ Claii	6)⊠ Claim(s) <u>1-31</u> is/are rejected.								
7)∏ Clai	7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.									
Application Papers									
9) The specification is objected to by the Examiner.									
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12) ☐ The oath or declaration is objected to by the Examiner.									
Priority under 35 U.S.C. §§ 119 and 120									
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a) ☐ All b) ☐ Some * c) ☐ None of:									
1.	1. Certified copies of the priority documents have been received.								
¹2.□	2. Certified copies of the priority documents have been received in Application No								
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).									
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.									
Attachment(s)									
2) Notice of D	eferences Cited (PTO-892) raftsperson's Patent Drawing Review (PTO Disclosure Statement(s) (PTO-1449) Pape			w Summary (PTO-413) Paper No of Informal Patent Application (PT					
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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 9, 20 and 29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Referring to claims 9, 20 and 29 it is unclear how the systems can operate in anything other than a multicarrier mode since the parent claims recite that the sync messages are received on a particular frequency and the receiver also receives portions of a multi-carrier signal. This could only happen if the system is in a multi-carrier mode and not in a single carrier mode.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-6, 12-17 and 21-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Bonnerot (USPN 4,281,408), hereafter referred to as Bonnerot.

Referring to claims 1, 12 and 21, Bonnerot discloses a multi-carrier base station operating within a predetermined set of frequencies wherein data components of forward link data are transmitted simultaneously on a plurality of frequency bands (a transmission system wherein data is transmitted on a plurality of frequency bands (see column 3 lines 44-63)), said base

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station comprising a first transmission subsystem for transmitting a sync channel message on a single carrier frequency of said predetermined set of frequencies (the transmission system transmits a pilot signal on the center frequency (see column 3 lines 44-63)) and at least one additional transmission subsystem for transmitting remaining components of said forward link data on another carrier frequency of said predetermined set of frequencies (other speech signals are transmitted at frequencies that deviate 10 Hz from the center frequency occupied by the pilot signal (see column 3 lines 44-64)).

Referring to claims 2, 13 and 22, Bonnerot discloses the system as discussed above. Furthermore, Bonnerot discloses that the sync channel message indicates the center frequency of at least one multi carrier system in said predetermined set of frequencies (the pilot channel is located on the center frequency and therefore inherently indicated the center frequency (see column 3 lines 44-63)).

Referring to claims 3,14 and 23, Bonnerot discloses the system as discussed above. Furthermore, Bonnerot discloses that the sync channel message indicates the frequency of a single carrier system in said predetermined set of frequencies (the pilot channel is located on the center frequency and therefore inherently indicated the center frequency (see column 3 lines 44-63)).

Referring to claims 4, 15 and 24, Bonnerot discloses the system as discussed above. Furthermore, Bonnerot discloses that the sync channel message indicates the frequency of a single carrier system in said predetermined set of frequencies (the pilot channel is located on only the center frequency and therefore inherently indicated the single carrier system for the pilot signal (see column 3 lines 44-63)).

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Referring to claims 5, 16 and 25, Bonnerot discloses the system as discussed above. Furthermore, Bonnerot discloses that the sync channel message is transmitted on one of a set of a preferred frequency channels wherein the number of frequencies in said set of preferred frequency channels is less number of frequencies in said predetermined set of frequencies (the pilot signal is transmitted on a particular frequency, namely 84.140 kHz, which is one of a plurality of a primary FDM group that operates in the range of 60-108 kHz (see column 3 lines 44-64)).

Referring to claims 6, 17 and 26, Bonnerot discloses the system as discussed above. Furthermore, Bonnerot discloses that the set of predetermined frequencies are the set of frequency bands in a personal communications system block of frequencies (the transmitters are used in conjunction with receivers to make telephony calls and therefore used by people thereby making the frequencies a set of 'personal communications system' frequencies (see column 1 lines 10-15 and 33-39 and column 3 lines 44-63)).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 7-11, 18-20 and 27-31, as best understood, are rejected under 35 U.S.C. 103(a) as being unpatentable over Bonnerot.

Referring to claims 7, 18 and 27, Bonnerot discloses the system discussed above.

Bonnerot does not disclose that the preferred set of channels is 75,150 and 225. However, it

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would have been obvious to one skilled in the art at the time of the invention to utilize these particular channels because doing so is merely a matter of design choice.

Referring to claims 8, 19 and 28, Bonnerot discloses the system as discussed above in the rejection of claims 1, 12 and 21. Although Bonnerot discloses components of the transmission side of system, Bonnerot does not disclose the components of the receiver side of the system, which would be used to receive the data transmitted by transmission system. Since the components of claims 8, 19 and 28 merely recite the receiver side components that would correspond to transmission side components, in the system of Bonnerot, it would have been obvious to one skilled in the art at the time of the invention to make a receiver that corresponds to the transmission components of the transmission system disclosed in Bonnerot because doing so would provide a method of communicating with such a transmission system, thereby allowing communications to take place.

Referring to claims 9, 20 and 29, Bonnerot discloses the system as discussed above. Furthermore, Bonnerot discloses that the system operates in a multi carrier system and directs the receiver to tune to a first frequency and to tune to at least one additional frequency when said mobile station operates in a multicarrier mode (the pilot signal is transmitted at one frequency and the other speech channels at other frequencies, therefore the receiver side would tune to the frequencies to recover the signals (see column 3 lines 44-46)).

Referring to claims 10 and 30, Bonnerot discloses the system as discussed above. Furthermore, Bonnerot discloses that the control processor directs said first receiver subsystem to tune to one of a predetermined set of preferred frequencies (the transmitter transmits using a primary FDM group operating in the range of 60-108 kHz, therefore the receiver would have to tune to these frequencies in order to recover the transmitted signals (see column 3 lines 44-63)).

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Referring to claims 11 and 31, Bonnerot discloses the system as discussed above. Furthermore, Bonnerot discloses that the systems use frequency bands within a personal communications system set of frequencies (the transmitters are used in conjunction with receivers to make telephony calls and therefore used by people thereby making the frequencies a set of 'personal communications system' frequencies (see column 1 lines 10-15 and 33-39 and column 3 lines 44-63)). Bonnerot does not disclose that the preferred set of channels is 75,150 and 225. However, it would have been obvious to one skilled in the art at the time of the invention to utilize these particular channels because doing so is merely a matter of design choice.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Odland, who can be reached at (703) 305-3231 on Monday – Friday during the hours of 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou, can be reached at (703) 305-4744. The fax number for the organization where this application or proceeding is assigned is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist, who can be reached at (703) 305-4750.

deo

February 8, 2003

